

# The Langley Hill Radar: Was it Worth It?



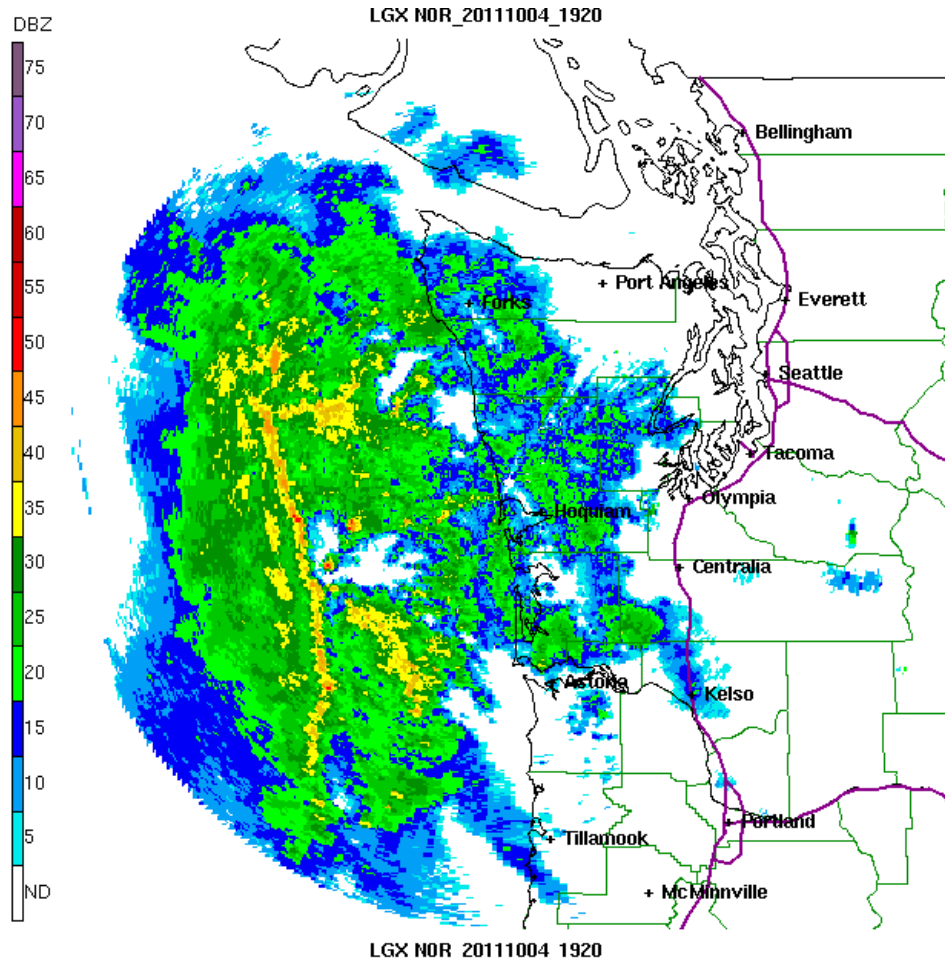


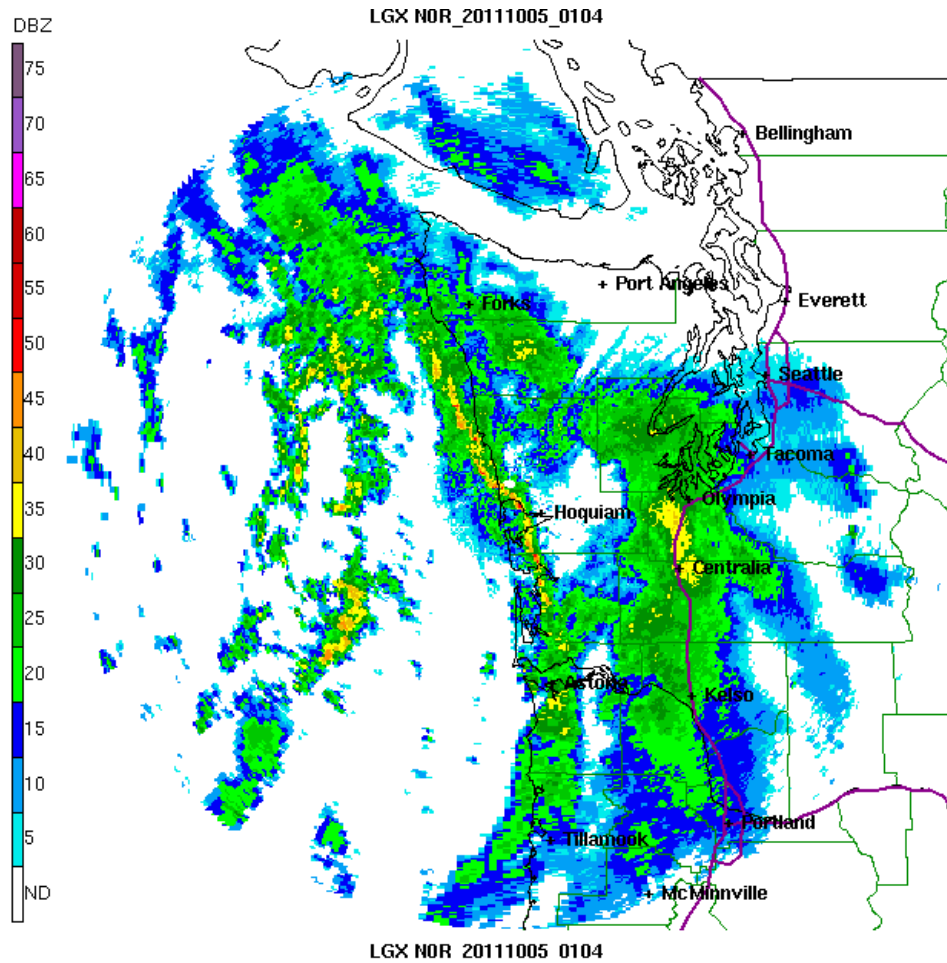
**Is Rain Wet?**

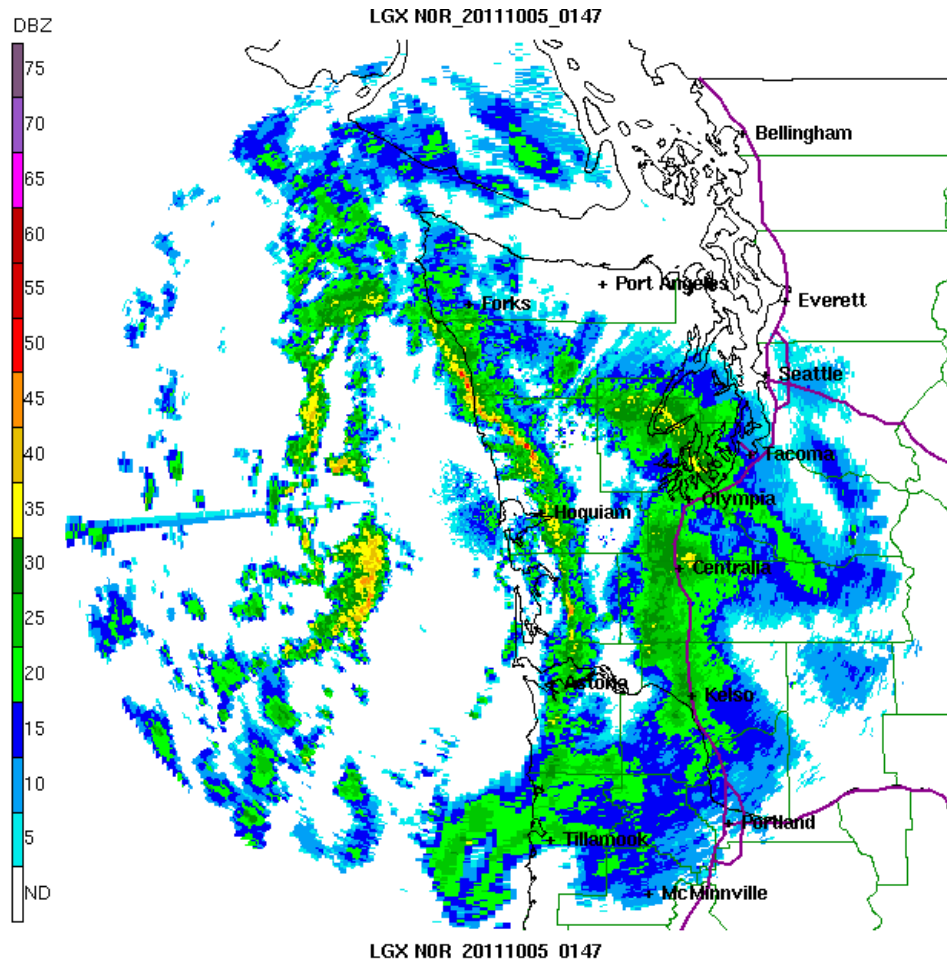
# The Langley Radar has clearly equaled if not exceeded expectations

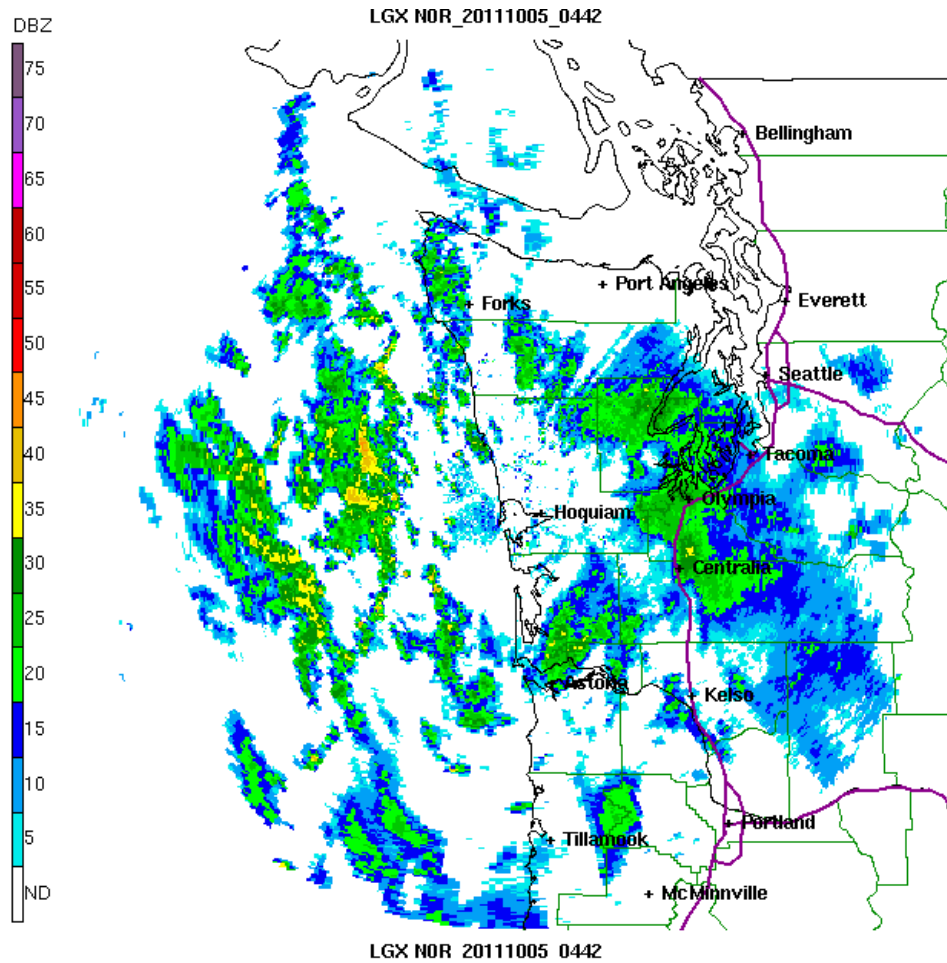
- Ocean ground clutter: a minor issue
- Has shown us the structure of oceanic weather systems approaching our coast.
- Has demonstrated coastal and windward mountain effects
- Has clearly led to increased forecast skill in the interior.

# Cold Front/Narrow Cold Frontal Rainband Approaching









# NWS Personnel Discuss the Use of the Langley Hill Radar Frequently

/20111020.SEW.fx66:WEAK FRONTAL BOUNDARY. KLGX RADAR SHOWING VERY LIGHT ECHOES  
/20111227.SEW.fx66:HOWEVER KATX AND KLGX RADARS SHOW ANOTHER BATCH OF PRECIPITATION  
/20120101.PQR.fx66:AND THE THREAT OF PRECIPITATION. KLGX DUAL-POL RADAR SHOWS A LINE OF  
/20120103.SEW.fx66:AS FOR THE PRECIP...KLGX AND KATX SHOW RAIN MAINLY AFFECTING THE  
/20120103.SEW.fx66:AS FOR THE PRECIP...KLGX AND KATX SHOW RAIN MAINLY AFFECTING THE  
/20120106.PQR.fx66:LAYER AROUND 1000 FT PER KLGX MELTING LAYER AND CORRELATION  
/20120106.PQR.fx66:LAYER AROUND 1000 FT PER KLGX MELTING LAYER AND CORRELATION  
/20120115.PQR.fx66:ENHANCEMENT IS ALREADY SHOWING UP ON KRTX/KLGX RADARS.  
/20120124.PQR.fx66:REMAIN AT ABOUT 3000-3500 FT BASED ON KRTX/KLGX DUAL-POL INDICATIONS  
/20120124.PQR.fx66:REMAIN AT ABOUT 3000-3500 FT BASED ON KRTX/KLGX DUAL-POL INDICATIONS  
/20120124.PQR.fx66:KRTX/KLGX DUAL-POL INDICATIONS AND SFC OBS AROUND THE AREA.  
/20120124.PQR.fx66:KRTX/KLGX DUAL-POL INDICATIONS AND SFC OBS AROUND THE AREA.  
/20120124.PQR.fx66:KRTX/KLGX DUAL-POL INDICATIONS AND SFC OBS AROUND THE AREA.  
/20120131.PQR.fx66:KLGX RADAR. SO WILL KEEP SOME DRIZZLE/LIGHT RAIN GOING THERE TODAY.  
/20120209.PQR.fx66:..SHORT TERM...KLGX AND KRTX DUAL-POL DOPPLER RADARS SHOW AN AREA OF  
/20120209.PQR.fx66:..SHORT TERM...KLGX AND KRTX DUAL-POL DOPPLER RADARS SHOW AN AREA OF  
/20120212.PQR.fx66:AND MID LEVEL CLOUDS STREAMING IN AHEAD OF THE SYSTEM. KLGX COASTAL  
/20120212.PQR.fx66:..SHORT TERM...RADAR IMAGERY FROM KLGX COASTAL RADAR SHOWS WEAK  
/20120214.PQR.fx66:SYSTEM. THE KLGX RADAR IS DETECTING A MORE ORGANIZED BAND OF RAIN  
/20120216.PQR.fx66:MORNING. KLGX RADAR SHOWING RAIN AROUND 30 TO 60 MILES OFFSHORE AT 2  
/20120223.SEW.fx66:THE LANGLEY HILL RADAR /KLGX/ SHOWED THE LEADING EDGE OF THE RAIN  
/20120224.SEW.fx66:THE LANGLEY HILL RADAR /KLGX/ SHOWED THE LEADING EDGE OF THE RAIN

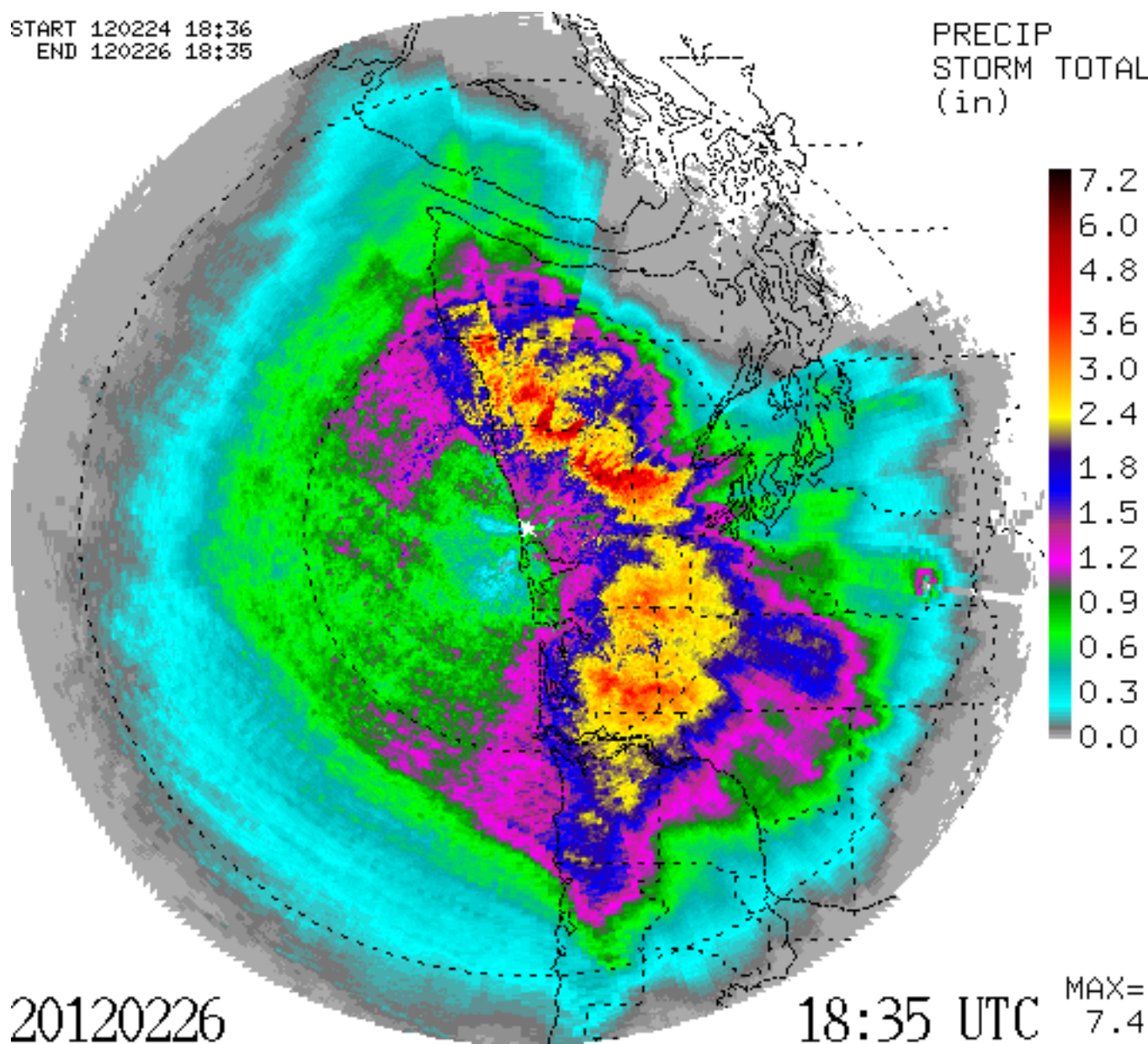


Can for the first time see  
precipitation totals on the  
windward side of the Olympics and  
Coastal Mountains

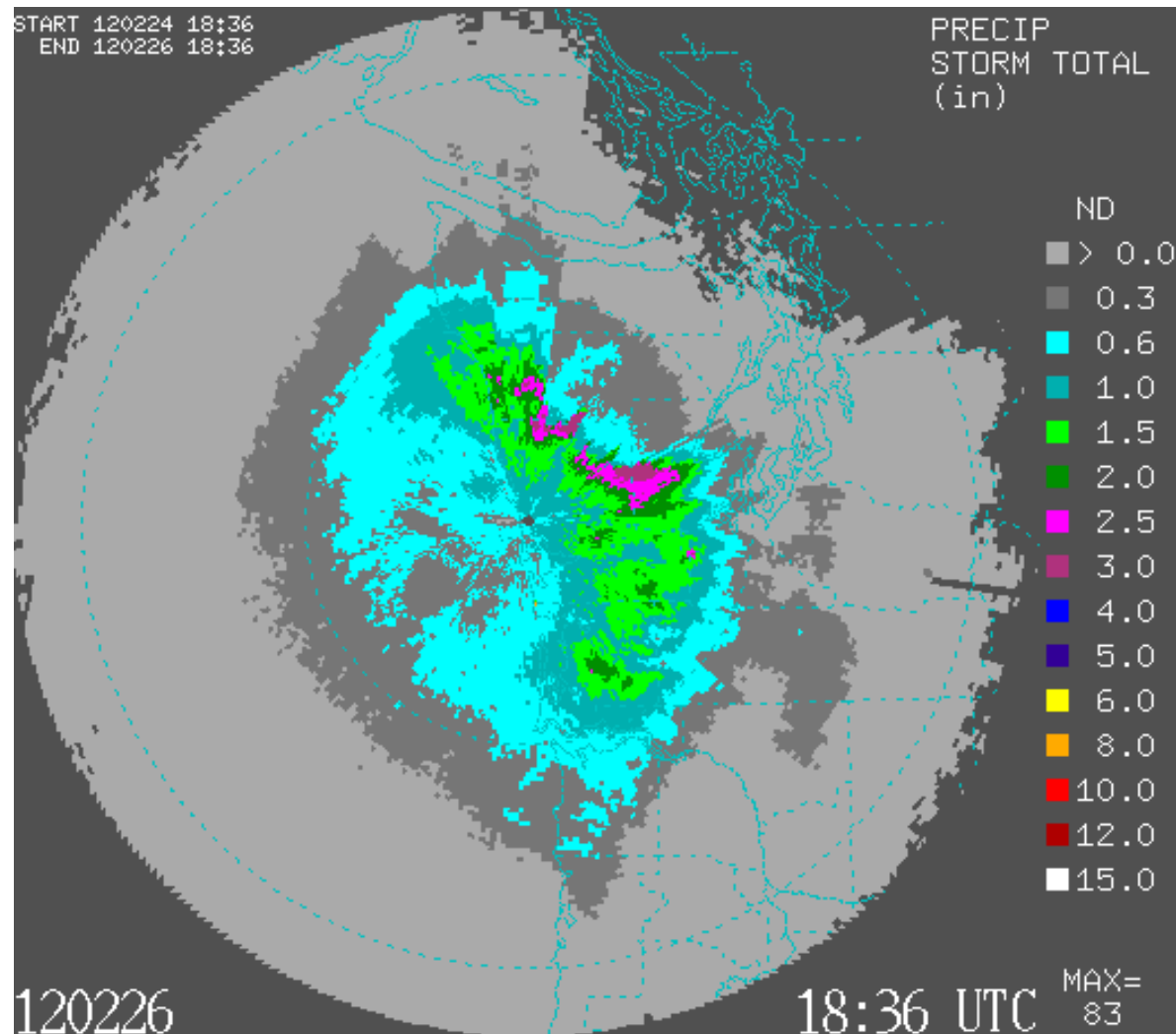
START 120224 18:36  
END 120226 18:35

PRECIP  
STORM TOTAL  
(in)

Dual Pol  
Storm  
Total



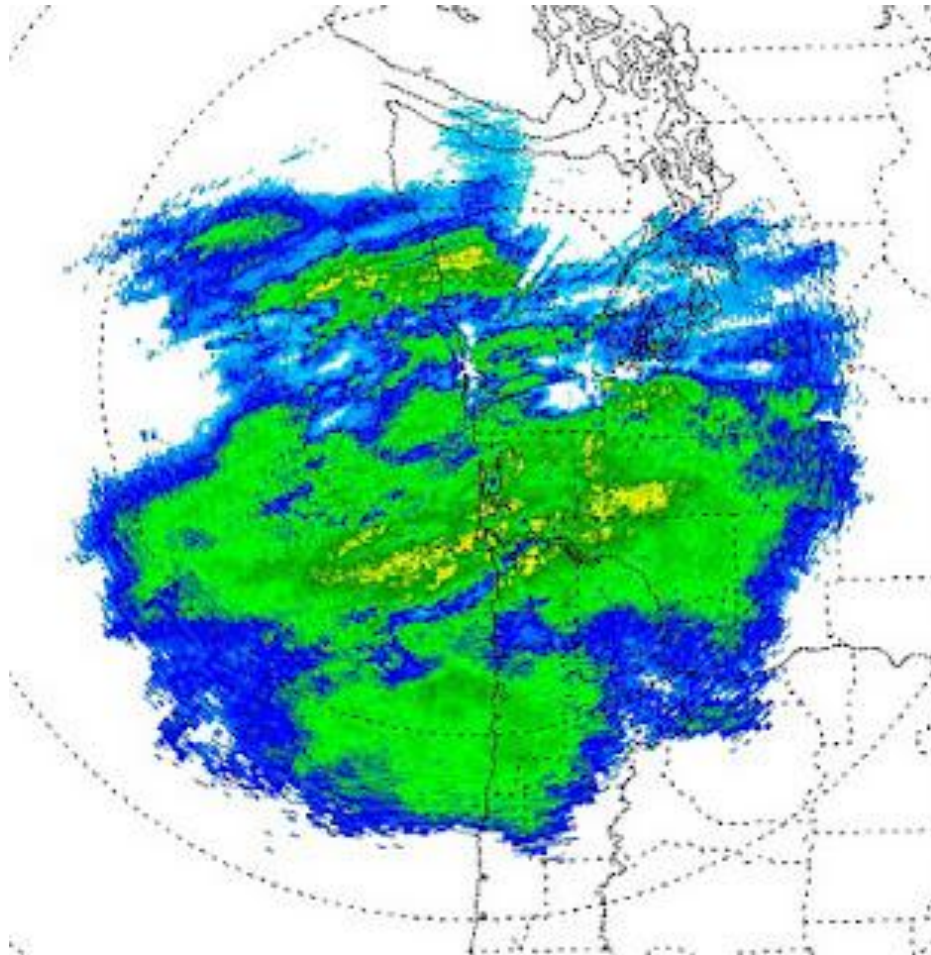
# Conventional Z-R relationship



The Radar Has Been Very Useful  
Telling Us When the Models Are  
Going Wrong....like the ice storm  
event in January



Model's Did Not Bring the Precip North of  
Olympia—by 3-4 AM the Coastal Radar  
Indicated A Very Different Picture



And a lot more...